

CHICAGO R2A2 MAPPING

Organization: Environmental Measurements Laboratory

Date: 9/18/02

<i>Roles & Responsibilities</i>	<i>Accountabilities</i>	<i>Authorities</i>	Services Provided to								
			<i>SC</i>	<i>Other Prog. Offices</i>	<i>Other HQ Offices</i>	<i>OM</i>	<i>CH Area Offices</i>	<i>GOGO</i>	<i>Other CH Offices</i>	<i>CH Employees</i>	<i>Non-CH Area Offices</i>
Technical Support	EM						X	X			X
Serving as interface between DOE and contractors on technical issues.			X				X				X
Provide consultation on radiation survey planning, data quality objectives, and background levels of radionuclides, radiation dose models, environmental transport, measurement techniques, and data assessment.			X				X				X
Service as an independent expert through conduct of demonstration surveys, comparability studies, continuous monitoring for ES&H impact, and retrospective dosimetry studies.							X				X
Field Quality Assurance	EM						X				X
Organization, conduct, and participation in intercomparison exercises.							X				X
Assistance with field measurement QA on an as-requested basis.							X				X
Evaluation of gamma spectrometry analysis.							X				X
Traceability program for radioanalytical activities related to environmental programs.		ANSI 42.22					X				X

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Quality Assessment Program	DOE-EM Office of Health, Safety and Security (EM-5)	MOA with EM-5 National Analytical Management Program	X	X	X		X	X			X
Quality Assurance Program for external independent evaluation of quality of analytical techniques for environmental radiological measurements		DOE O 5400.1 DOE O 414.1A		X			X				X
DOE Program Management and Consultation	EM EM-5			X			X				X
Participation on Joint Coordinating Committee for Environmental Restoration and Waste Management		Memorandum of cooperation between USDOE/EM/OST and MINATOM RF		X							
Provision of expert technical program support and Assistance in field coordination for the Characterization, Monitoring, and Sensor Technology Crosscutting Program.				X							
Provision of assistance to CMST-TMFA on issues relevant to characterization technologies of transuranic waste and spent nuclear fuel.				X							
Support to EM Laboratory Management Group.				X							
Management and improvement of the Cleanup Criteria/Decision Document Database.				X			X		X		X
Technical support to the High Level Waste Program for Quality Assurance audits				X							X

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Maintaining state-of-the-art capability and professional recognition to address environmental radiochemistry issues and to support Multi-Agency Radiological Laboratory Analytical Protocols.				X			X		X		X	
Participation on Technical Advisory Review Team for Los Alamos Pueblo Project.		Accords between DOE and Cochiti, Jemes, San Ildefonso, and Santa Clara Pueblos		X						X		
Participation on U.S. Transuranium and Uranium Registries Advisory Committee.		NCRP and ICRP		X								
Instrument and Methods Development for low level radiation detection and measurement	EM			X			X		X		X	
Day-to-day Coordination of DOE activities for the Strategic Environmental Research Development Program	SC-70	Congressional Mandate	X	X								
DOE representation to Interagency Arctic Research Policy Commission	SC-70	Arctic Research Policy Act of 1984	X	X								
Maintenance and operation of the Human Subjects Research Database.	SC-72	10 CFR Part 745 DOE O 443.1 DOE P 443.1	X									

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Identify existing and potential nuclear proliferation threats	NN-20	National Security		X							
o Identify potential signatures of proliferation activities			X								
o Development of advanced analytical technologies			X								
o Collection and maintenance of environmental samples			X								
o Preparation of global programs database for internet access			X								
Support to Radiological Assistance Program	NA-40		X	X	X						
Work for Others											
o Maintenance of Global Sampling Network surface air sampling stations	Air Force Technical Applications Center	National Security		X							
• Analysis of filters for radioactive nuclides	Air Force Technical Applications Center	National Security		X							
• Supplying basic data used to assess nuclear fallout, accidental release of radioactivity, and levels of naturally occurring radionuclides.	World Meteorology Organization Global Atmosphere Watch			X							
o Provide information and develop survey methodology to support rulemaking on decommissioning of licensed facilities and initiatives addressing clearance of materials.	U.S. NRC										

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<ul style="list-style-type: none"> U.S. Radionuclide Laboratory for International Monitoring System 	DTRA	Provisional Technical Secretariat of the Comprehensive Test-Ban Treaty Organization		X							
Research in neutron spectrometry	WFO customer	Title 42, Ch. 23, section 2053.		X							X